



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant: Alexander A. Maltsev et al.

SYSTEM AND METHOD FOR SELECTING DATA RATES TO PROVIDE UNIFORM BIT LOADING OF SUBCARRIERS OF A MULTICARRIER COMMUNICATION CHANNEL

Docket No.: 884.B55US1
Filed: March 30, 2004
Examiner: Unknown

Serial No.: 10/815,035
Due Date: N/A
Group Art Unit: 2631

Mail Stop Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard.
- ☒ A Communication Concerning Related Applications (2 pgs.).
- ☒ An Information Disclosure Statement (2 pgs.), Form 1449 (2 pgs.), and copies of 23 cited documents.

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
Customer Number 21186

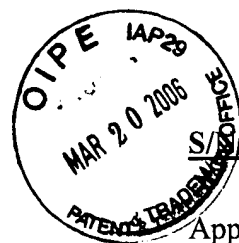
By: *Ann M. McCrackin*
Atty: Ann M. McCrackin
Reg. No. 42,858

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 17th day of March, 2006.

JAMES KANYUSIK
Name

James Kanyusik
Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
(GENERAL)



S/N 10/815,035

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Alexander A. Maltsev et al.	Examiner:	Unknown
Serial No.:	10/815,035	Group Art Unit:	2631
Filed:	March 30, 2004	Docket:	884.B55US1
Title:	SYSTEM AND METHOD FOR SELECTING DATA RATES TO PROVIDE UNIFORM BIT LOADING OF SUBCARRIERS OF A MULTICARRIER COMMUNICATION CHANNEL		
Assignee:	Intel Corporation	Customer No.:	21186

COMMUNICATION CONCERNING RELATED APPLICATION(S)

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Applicants would like to bring to the Examiner's attention the following related application(s) in the above-identified patent application:

<u>Serial/Patent No.</u>	<u>Filing Date</u>	<u>Attorney Docket</u>	<u>Title</u>
10/749,903	December 29, 2003	884.B53US1	MULTICHANNEL ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED RECEIVERS WITH ANTENNA SELECTION AND MAXIMUM-RATIO COMBINING AND ASSOCIATED METHODS
10/789,387	February 26, 2004	Intel P16330	AN APPARATUS AND ASSOCIATED METHODS TO INTRODUCE DIVERSITY IN A MULTICARRIER CHANNEL
60/536,071	January 12, 2004	Intel P18618Z	A SYSTEM APPARATUS AND ASSOCIATED METHODS FOR HIGH THROUGHPUT WIRELESS NETWORKING
10/862,535	June 7, 2004	884.C80US1	MULTICARRIER COMMUNICATION SYSTEM AND METHODS FOR LINK ADAPTATION USING UNIFORM BIT LOADING AND SUBCARRIER PUNCTURING

COMMUNICATION CONCERNING RELATED APPLICATIONS

Page 2

Serial Number: 10/815,035

Dkt: 884.B55US1 (INTEL)

Filing Date: March 30, 2004

Title: SYSTEM AND METHOD FOR SELECTING DATA RATES TO PROVIDE UNIFORM BIT LOADING OF SUBCARRIERS OF A MULTICARRIER COMMUNICATION CHANNEL

Assignee: Intel Corporation

Respectfully submitted,

ALEXANDER A. MALTSEV ET AL.

By Applicants' Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

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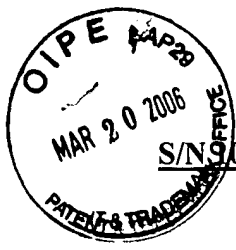
(612) 349-9592

Date March 15, 2006 By Ann M. McCrackin
Ann M. McCrackin
Reg. No. 42,858

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JAMES KANYSIK
Name

Roman Koupal
Signature



S/N 10/815,035

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Alexander Alexandrovich Maltsev et al.	Examiner:	Unknown
Serial No.:	10/815,035	Group Art Unit:	2631
Filed:	March 30, 2004	Docket:	884.B55US1
Title:	SYSTEM AND METHOD FOR SELECTING DATA RATES TO PROVIDE UNIFORM BIT LOADING OF SUBCARRIERS OF A MULTICARRIER COMMUNICATION CHANNEL		
Assignee:	Intel Corporation	Customer Number:	21186

INFORMATION DISCLOSURE STATEMENT

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully requests that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicant requests that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicant with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

INFORMATION DISCLOSURE STATEMENT

Customer No.: 21186

Serial No.: 10/815,035

Filing Date: March 30, 2004

Title: SYSTEM AND METHOD FOR SELECTING DATA RATES TO PROVIDE UNIFORM BIT LOADING OF SUBCARRIERS OF A MULTICARRIER COMMUNICATION CHANNEL

Assignee: Intel Corporation

Page 2

Dkt: 884.B55US1 (INTEL)

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any U.S. Patent or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

ALEXANDER ALEXANDROVICH MALTSEV ET AL.

By their Representatives,

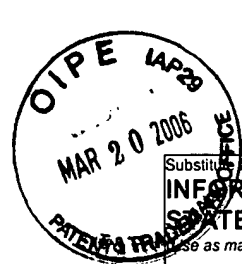
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
Attorneys for Intel Corporation
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Minneapolis, MN 55402
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Date March 15, 2006 By Ann M. McCrackin
Ann M. McCrackin
Reg. No. 42,858

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JAMES KANYUSIK
Name

[Signature]
Signature



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/815,035
Filing Date	March 30, 2004
First Named Inventor	Maltsev, Alexander
Group Art Unit	2631
Examiner Name	Unknown

Sheet 1 of 2

Attorney Docket No: 884.B55US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-2003/0043732A1	03/06/2003	Walton, J. R., et al.	06/26/2001
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	US-2005/0031047A1	02/10/2005	Maltsev, A. A., et al.	12/16/2003
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Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T ²
	EP-1240918A2	09/18/2002	Mouchawar, G. A., et al.	
	EP-1411647A2	04/21/2004	Liu, J.-T., et al.	
	GB-2384651	07/30/2003	Matsuoka, H., et al.	
	WO-03/047198A2	06/05/2003	Kadous, T., et al.	
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	WO-2005/067171A1	07/21/2005	Sadri, A., et al.	
	WO-2005/071912A1	08/04/2005	Maltsev, A. S., et al.	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"Supplement to IEEE Standard for Information Technology- Telecommunications and Information Exchange Between Systems- Local and Metropolitan Area Networks - Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY)", <u>IEEE STD 802.11A-1999</u> , (December 30, 1999), c1-90	
		ABDUL AZIZ, M. K., et al., "Indoor Throughput and Range Improvements Using Standard Compliant AP Antenna Diversity in IEEE 802.11a and ETSI HIPERLAN/2", VTC 2001 Fall. <u>IEEE VTS 54th Vehicular Technology Conference</u> , 2001, Volume 4, (October 7-11, 2001), 2294-2298	
		BANGERTER, B., et al., "High-Throughput Wireless LAN Air Interface", <u>Intel® Technology Journal</u> , 7(3), http://developer.intel.com/technology/itj/index.htm , (August 19, 2003), 47-57	
		CHOI, B., et al., "Optimum Mode-Switching-Assisted Constant-Power Single- and Multicarrier Adaptive Modulation", <u>IEEE Transactions on Vehicular Technology</u> , 52(3), (May, 2003), 536-560	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known	
	Application Number	10/815,035
	Filing Date	March 30, 2004
	First Named Inventor	Maltsev, Alexander
	Group Art Unit	2631
	Examiner Name	Unknown
Sheet 2 of 2	Attorney Docket No: 884.B55US1	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		CIOFFI, JOHN M., "Chapter 4 - Multi-Channel Modulation", <u>Lectures on Digital Communications, Stanford University</u> , Available from http://www.stanford.edu/class/ee379c/ , (2001), 278-314	
		DAMMANN, A., et al., "Transmit/Receive - Antenna - Diversity Techniques For OFDM Systems", <u>European Transactions on Telecommunications</u> , 13 (5), Multi-Carrier Spread-Spectrum and Related Topics, (September, 2002), 531-538	
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		YIH, C.-H. , et al., "Adaptive Modulation, Power Allocation and Control for OFDM Wireless Networks", <u>Personal, Indoor and Mobile Radio Communication</u> , 2, (2000), 809-813	
		YUAN, H. , et al., "An Adaptive Array Antenna with Path Selection of OFDM Signal", <u>European Personal Mobile Communications Conference</u> , (APR., 22, 2003), 412-416	
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EXAMINER

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Substitute Disclosure Statement Form (PTO-1449)

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